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THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	this application.	complying with the requirements
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submitted. No INFORMAL PATENT APPLICATION (PTO-152) which gives reason</li> </ol>		
6. CORRECTED DRAWINGS ( as "replacement sheets") must be sub	omitted.	
(a)  including changes required by the Notice of Draftsperson's Pa	tent Drawing Review ( PTO-	948) attached
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amend Paper No./Mail Date	dment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1.84(c)) sleach sheet. Replacement sheet(s) should be labeled as such in the head	hould be written on the drawing according to 37 CFR 1.121(	ngs in the front (not the back) of d).
7. DEPOSIT OF and/or INFORMATION about the deposit of B attached Examiner's comment regarding REQUIREMENT FOR THE	OLOGICAL MATERIAL r IE DEPOSIT OF BIOLOGIC	must be submitted. Note the AL MATERIAL.
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Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. Notice of Informal P	Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. M Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),	Paper No./Mail Da 7. ⊠ Examiner's Amendr	
Paper No./Mail Date <u>2-20-04</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.  Other	

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### **DETAILED ACTION**

#### Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

 Claims 1-19 and 28-54 are drawn to a solder product, classified in class 148, subclass various.

II. Claims 20-27 are drawn to a method of forming a bump, classified in class 228, subclass 254.

The inventions are distinct, each from the other because of the following reasons:

Inventions Group I and Group II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product can be made by a method without the use of a flux.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

During a telephone conversation with Paul Teng on 6-2-05 a provisional election was made without traverse to prosecute the invention of Group II, claims 20-27. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-19 and 28-54 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Paul Teng on 6-2-05.

The application has been amended as follows:

Cancel claims 1-19 and 28-54.

Claim 7, line 11, change "the electroconductive" to --an electroconductive--.

Claim 24, line 2, delete "a solder ball disposing step for"

Claim 24, lines 6 and 7, delete "an electroconductive, adhesive composition supplying step for"

Claim 24, line 10, delete "a positioning step for"

Claim 24, line 15, delete "a solder ball fixing step for"

Claim 24, line 18, delete "a substrate releasing step for"

# Claim Allowance

Claims 20-27 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art of record does not suggest or teach a bump forming process, particularly supplying an electroconductive, adhesive composition by liquid spraying to the bump forming points on the object on which the bumps are to be formed.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Johnson whose telephone number is 571-272-1177. The examiner can normally be reached on M-Th 7AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Johnson Primary Examiner Art Unit 1725